BOWLING GREEN

MO2010093

2013 Annual Water Quality Report

(Consumer Confidence Report)

This report is intended to provide you with important information about your drinking water and the efforts made to provide safe drinking water.

Attencion!

Este informe contiene información muy importante. Tradúscalo o prequntele a alguien que lo entienda bien.
[Translated: This report contains very important information. Translate or ask someone who understands this very well.]

What is the source of my water?

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and groundwater wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

Our water comes from the following source(s):

Source Name	Type
LAKE #1	SURFACE WATER

Our drinking water is supplied from another water system through a Consecutive Connection (CC). To find out more about our drinking water sources and additional chemical sampling results, please contact our office at the number provided below.

Buyer Name	Seller Name
BOWLING GREEN	CLARENCE CANNON WHOLESALE WTR COMM

Source Water Assessment:

The Department of Natural Resources conducted a source water assessment to determine the susceptibility of our water source to potential contaminants. This process involved the establishment of source water area delineations for each well or surface water intake and then a contaminant inventory was performed within those delineated areas to assess potential threats to each source. Assessment maps and summary information sheets are available on the internet at http://maproom.missouri.edu/swipmaps/pwssid.htm. To access the maps for your water system you will need the State-assigned identification code, which is printed at the top of this report. The Source Water Inventory Project maps and information sheets provide a foundation upon which a more comprehensive source water protection plan can be developed.

Why are there contaminants in my water?

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline (800-426-4791).
Contaminants that may be present in source water include:
A. Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
B. Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban stormwater runoff, industrial, or domestic wastewater discharges, oil and gas production, mining, or farming.
C. Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.
D. Organic chemical contaminants, including synthetic and volatile organic chemicals, which are byproducts of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.
E. Radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.
In order to ensure that tap water is safe to drink, the Department of Natural Resources prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. Department of Health regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Is our water system meeting other rules that govern our operations?

The Missouri Department of Natural Resources regulates our water system and requires us to test our water on a regular basis to ensure its safety. Our system has been assigned the identification number MO2010093 for the purposes of tracking our test results. Last year, we tested for a variety of contaminants. The detectable results of these tests are on the following pages of this report. Any violations of state requirements or standards will be further explained later in this report.

How might I become actively involved?

If you would like to observe the decision-making process that affect drinking water quality or if you have any further questions about your drinking water report, please call us at **573-324-6262** to inquire about scheduled meetings or contact persons.

Do I need to take any special precautions?

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

Special Lead and Copper Notice:

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. BOWLING GREEN is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline (800-426-4791) or at http://water.epa.gov/drink/info/lead/index.cfm.

Friday, April 25, 2014

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Contaminants Report

Definitions:

Population: 5334. This is the equivalent residential population served including non-bill paying customers.
MCLG: Maximum Contaminant Level Goal, or the level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.
MCL: Maximum Contaminant Level, or the highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.
SMCL. Secondary Maximum Contaminant Level, or the secondary standards that are non-enforceable guidelines for contaminants and may cause cosmetic effects (such as skin or tooth discoloration) or aesthetic effects (such as taste, odor or color) in drinking water. EPA recommends these standards but does not require water systems to comply
AL: Action Level, or the concentration of a contaminant which, when exceeded, triggers treatment or other requirements which a water system must follow..
TT: Treatment Technique, or a required process intended to reduce the level of a contaminant in drinking water.
90th percentile: For lead and Copper testing. 10% of test results are above this level and 90% are below this level.
Level Found: is the average of all test results for a particular contaminant.
Range of Detections: Shows the lowest and highest levels found during a testing period, if only one sample was taken, then this number equals the Level Found.
MRLDG: Maximum Residual Disinfectant Level Goal, or the level of a drinking water disinfectant below which there is no known or expected risk to health.
MRDL: Maximum Residual Disinfectant Level, or the highest level of a disinfectant allowed in drinking water.
RAA: Running Annual Average, or the average of sample analytical results for samples taken during the previous four calendar quarters.
LRAA: Locational Running Annual Average, or the locational average of sample analytical results for samples taken during the previous four calendar quarters.

Abbreviations:

TTHM: Total Trihalomethanes (chloroform, bromodichloromethane, dibromochloromethane, and bromoform) as a group.
HAA5: Haloacetic Acids (mono-, di- and tri-chloroacetic acid, and mono- and di-bromoacetic acid) as a group.
ppb: parts per billion or micrograms per liter.
ppm: parts per million or milligrams per liter.
n/a: not applicable.
NTU: Nephelometric Turbidity Unit, used to measure cloudiness in drinking water.
MFL: million fibers per liter, used to measure asbestos concentration.
nd: not detectable at testing limits.

The state has reduced monitoring requirements for certain contaminants to less often than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Records with a sample year more than one year old are still considered representative.

Regulated Contaminants

Regulated Contaminants	Collection Date	Highest Value	Range (low – high)	Unit	MCL	MCLG	Typical Source
BARIUM	5/8/2013	0.0375	0.0375	ppm	2	2	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
FLUORIDE	5/8/2013	0.89	0.89	ppm	4	4	Natural deposits; Water additive which promotes strong teeth
NITRATE-NITRITE	6/11/2013	0.18	0.18	ppm	10	10	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits

Disinfection Byproducts	Monitoring Period	Highest RAA	Range (low – high)	Unit	MCL	MCLG	Typical Source
(HAA5)	2013	37	18 - 48.1	ppb	60	0	Byproduct of drinking water disinfection
TTHM	2013	49	30.4 - 70.3	ppb	80	0	Byproduct of drinking water disinfection

TOC	Collection Date	Highest Value	Range	Unit	TT	Typical Source
CARBON, TOTAL	4/5/2013	3.25	1.75 - 3.25	MG/L	0	Naturally present in the environment

Lead and Copper	Date	90th Percentile	Range (low – high)	Unit	AL	Sites Over AL	Typical Source
COPPER	2011 - 2013	0.0155	0.0021 - 0.425	ppm	1.3	0	Corrosion of household plumbing systems
LEAD	2011 - 2013	1.5	1.5 - 2.93	ppb	15	0	Corrosion of household plumbing systems

Turbidity					
Turbidity is a measure of cloudiness of water. We monitor turbidity because it is a good indicator of the effectiveness of our filtration system.					
Percentage of samples in compliance with Std	Months Occurred	Violation	Highest Single Measurement	Month Occurred	Sources
100	12	NO	0.24	9	SOIL RUNOFF

Microbiological	Result	MCL	MCLG	Typical Source
COLIFORM (TCR)	In the month of September, 2 sample(s) returned as positive	MCL: Systems that Collect Less Than 40 Samples per Month - No more than 1 positive monthly sample	0	Naturally present in the environment

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Violations and Health Effects Information

During the 2013 calendar year, we had the below noted violation(s) of drinking water regulations.

Compliance Period	Analyte	Type
09/01/2013 - 09/30/2013	COLIFORM (TCR)	MCL (TCR), MONTHLY

Additional Required Health Effects Language:

Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially-harmful, bacteria may be present. Coliforms were found in more samples than allowed and this was a warning of potential problems.

No harmful bacteria were detected. As a precaution, water mains were thoroughly flushed and retested. All repeat samples were clear.

Reseller Contaminants

Regulated Contaminants	Collection Date	Water System	Highest Value	Range (low – high)	Unit	MCL	MCLG	Typical Source
ATRAZINE	11/18/2013	CLARENCE CANNON WHOLESALE WTR COMM	0.63	0 - 0.63	ppb	3	3	Runoff from herbicide used on row crops
BARIUM	11/13/2013	CLARENCE CANNON WHOLESALE WTR COMM	0.0452	0.0452	ppm	2	2	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
CHROMIUM	11/13/2013	CLARENCE CANNON WHOLESALE WTR COMM	2.78	2.78	ppb	100	100	Discharge from steel and pulp mills
FLUORIDE	11/13/2013	CLARENCE CANNON WHOLESALE WTR COMM	0.18	0.18	ppm	4	4	Natural deposits; Water additive which promotes strong teeth
NITRATE-NITRITE	6/20/2013	CLARENCE CANNON WHOLESALE WTR COMM	1.44	1.44	ppm	10	10	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
SIMAZINE	2/27/2013	CLARENCE CANNON WHOLESALE WTR COMM	0.77	0 - 0.77	ppb	4	4	Herbicide runoff

Disinfection Byproducts	Monitoring Period	Water System	Highest RAA	Range (low – high)	Unit	MCL	MCLG	Typical Source
(HAA5)	2013	CLARENCE CANNON WHOLESALE WTR COMM	30	20.9 - 32.9	ppb	60	0	Byproduct of drinking water disinfection
TTHM	2013	CLARENCE CANNON WHOLESALE WTR COMM	35	18.4 - 46.7	ppb	80	0	Byproduct of drinking water disinfection

Reseller Violations and Health Effects Information

During the 2013 calendar year, the water system(s) that we purchase water from had the below noted violation(s) of drinking water regulations.

Water System	Type	Category	Analyte	Compliance Period
No Violations Occurred in the Calendar Year of 2013				

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Optional Monitoring (not required by EPA)

Optional Contaminants

Monitoring is not required for optional contaminants.

Secondary Contaminants	Collection Date	Your Water System Highest Value	Range (low - high)	Unit	SMCL
ALKALINITY, CACO3 STABILITY	5/8/2013	144	144	MG/L	
ALKALINITY, TOTAL	1/7/2013	128	77 - 128	MG/L	
ALUMINUM	5/8/2013	0.284	0.284	MG/L	0.05
CALCIUM	5/8/2013	49.8	49.8	MG/L	
CHLORIDE	5/13/2011	9.67	9.67	MG/L	250
HARDNESS, CARBONATE	5/8/2013	146	146	MG/L	
MAGNESIUM	5/8/2013	5.22	5.22	MG/L	
MANGANESE	5/8/2013	0.00122	0.00122	MG/L	0.05
NICKEL	5/8/2013	0.0011	0.0011	MG/L	0.1
PH	5/8/2013	7.63	7.63	PH	8.5
POTASSIUM	5/8/2013	2.54	2.54	MG/L	
SODIUM	5/8/2013	5.03	5.03	MG/L	
SULFATE	5/8/2013	60.4	60.4	MG/L	250
TDS	5/8/2013	196	196	MG/L	500

Reseller Secondary Contaminants	Collection Date	Water System	Highest Value	Range (low - high)	Unit	SMCL
ALKALINITY, CACO3 STABILITY	11/6/2012	CLARENCE CANNON WHOLESALE WTR COMM	109	109	MG/L	
ALKALINITY, TOTAL	1/14/2013	CLARENCE CANNON WHOLESALE WTR COMM	96	62 - 96	MG/L	
CALCIUM	11/13/2013	CLARENCE CANNON WHOLESALE WTR COMM	54.7	54.7	MG/L	
CHLORIDE	11/20/2011	CLARENCE CANNON WHOLESALE WTR COMM	59.8	59.8	MG/L	250
HARDNESS, CARBONATE	11/13/2013	CLARENCE CANNON WHOLESALE WTR COMM	154	154	MG/L	
IRON	11/13/2013	CLARENCE CANNON WHOLESALE WTR COMM	0.00886	0.00886	MG/L	0.3
MAGNESIUM	11/13/2013	CLARENCE CANNON WHOLESALE WTR COMM	4.33	4.33	MG/L	
METOLACHLOR	11/18/2013	CLARENCE CANNON WHOLESALE WTR COMM	1.18	0 - 1.18	ppb	
NICKEL	11/13/2013	CLARENCE CANNON WHOLESALE WTR COMM	0.0039	0.0039	MG/L	0.1
PH	11/13/2013	CLARENCE CANNON WHOLESALE WTR COMM	7.57	7.57	PH	8.5
POTASSIUM	11/13/2013	CLARENCE CANNON WHOLESALE WTR COMM	5.17	5.17	MG/L	
SODIUM	11/13/2013	CLARENCE CANNON WHOLESALE WTR COMM	10.4	10.4	MG/L	
SULFATE	11/6/2012	CLARENCE CANNON WHOLESALE WTR COMM	27.9	27.9	MG/L	250
TDS	11/13/2013	CLARENCE CANNON WHOLESALE WTR COMM	234	234	MG/L	500
ZINC	11/13/2013	CLARENCE CANNON WHOLESALE WTR COMM	0.00499	0.00499	MG/L	5

Secondary standards are non-enforceable guidelines for contaminants that may cause cosmetic effects (such as skin or tooth discoloration) or aesthetic effects (such as taste, odor or color) in drinking water. EPA recommends these standards but does not require water systems to comply.